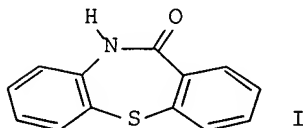


L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:470943 CAPLUS Full-text
 DN 141:38637
 TI Method of preparing 10H-dibenzo[b,f][1,4]thiazepin-11-one
 IN Kwak, Byong-sung; Chung, Ki-nam; Koh, Ki-ho; Hwang, Hee-jun
 PA SK Corporation, S. Korea
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004047722	A2	20040610	WO 2003-KR2579	20031126
	WO 2004047722	A3	20041202		
	WO 2004047722	C1	20050721		
	W: JP, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	KR 2004046694	A	20040605	KR 2002-74691	20021128
	EP 1565448	A2	20050824	EP 2003-774336	20031126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
	JP 2006508152	T2	20060309	JP 2004-555125	20031126
PRAI	KR 2002-74691	A	20021128		
	WO 2003-KR2579	W	20031126		
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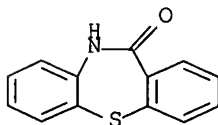


AB Disclosed is a method of preparing 10H-dibenzo[b,f][1,4]thiazepin-11-one I, including reacting dithiosalicylic acid with 1-chloro-2-nitrobenzene in a basic aqueous solution in the presence or absence of a reducing agent, to prepare 2-(2-nitrophenylsulfuryl)benzoic acid; subjecting the 2-(2-nitrophenylsulfuryl)benzoic acid to nitro group reduction in the presence of H₂, a solvent and a heterogeneous metal catalyst, to prepare 2-(2-aminophenylsulfuryl)benzoic acid; and directly cyclizing the 2-(2-aminophenylsulfuryl)benzoic acid in an organic solvent in the presence or absence of an acid catalyst. The method according to the present invention is economical due to the use of the inexpensive starting material, and also environmentally friendly and efficient by minimizing the use of the organic solvent and performing direct cyclization without the activation of carboxylic acid.

IT 3159-07-7P, Dibenzo[b,f][1,4]thiazepin-11(10H)-one
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (multi-step synthesis of 10H-dibenzo[b,f][1,4]thiazepin-11-one from dithiosalicylic acid)

RN 3159-07-7 CAPLUS

CN Dibenzo[b,f][1,4]thiazepin-11(10H)-one (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



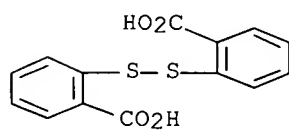
IT 119-80-2, Dithiosalicylic acid

RL: RCT (Reactant); RACT (Reactant or reagent)

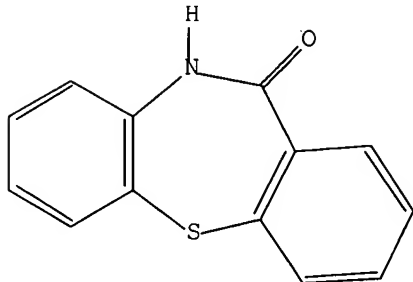
(multi-step synthesis of 10H-dibenzo[b,f][1,4]thiazepin-11-one from dithiosalicylic acid)

RN 119-80-2 CAPLUS

CN Benzoic acid, 2,2'-dithiobis- (9CI) (CA INDEX NAME)

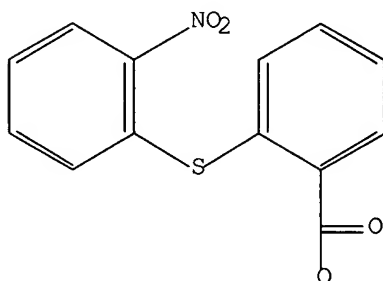


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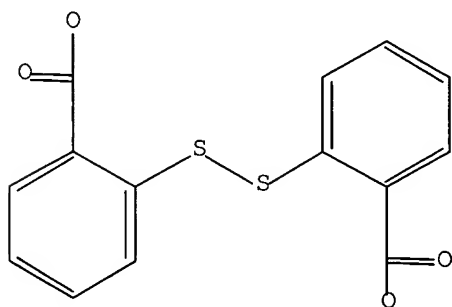
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L10 HAS NO ANSWERS
L9 STR



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L5 STRUCTURE UPLOADED
L6 QUE L5
L7 21 S L6
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L11 13 S L10
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L14 599 S L12
L15 1 S L13 AND L14
L16 87 S L8
L17 25 S L16 AND L13

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	10.15	514.70
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

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